Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

2nd & Part Bill

Division: EE Byatrayanapura Div | Sub division: AEE Byatrayanapura Div | Head of Account:

Bill Received No. .....Date..... Cash Book Voucher No..... dated.....

Scheduled Docted No.

R-3158

Name of Work (as per sanctioned estimate): **Package No.02 (Package consists of 14 works)**

007-18-000109 to 007-18-000122

Name of Contractor and Full Address: **Sri.D. Narahari Benaka Developers & Project Pvt.Ltd., #34, 2nd Floor, 2nd Cross, Sampige Road, Malleswaram Bangalore-03**

Reference to Work order No. **BBMP/EE/BTP/WO/164/2018-19**

For Benaka Developers And Projects Pvt. Ltd

Certified that the measurement were taken by me on 21.08.19 and recorded of pages: 496947 To 496957 of measurement Book No: 4970/17-18 and that the work is satisfactorily executed.

NARAHARI .D
Managing Director

Contractor :

Officer-In-Charge of work

Certified that the measurements were taken by me on 23/8/19 are found correct and the work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer
Sub-Division Officer

II Memorandum of Payment

1) Total value of work done or supplies made as per account within	Bruhat Bangalore Mahanagara Palike Bangalore - 560 002
2) Deduct amount to be held in reserve being.....percent Rs.....	
3) Deduct amount to be held in Balance	
4) Deduct Payments:	
a) Amount of previous payment as in the office Cash Book Voucher No.....Dated .....S.D No.....	
Amount adjusted towards cash advance recovery of	
b) Payments cost store or other materials supplied	
Now made recovery of amount creditable to this/other work	
Amount paid on this bill Cheque/Cash	
5) Balance being unpaid value of work done held in reserve	
6) Deduct cash advance made on the Office Cash Book Voucher No..... dated..... less adjustments	
7) Net amount due to or from contractor	
Unadjusted items	
8) Advance to contractor for materials brought to site (as detailed) with Value of Government materials supplied	

Whole Rs 37319627-00
Revised 14032319-00
P Bill

	23286442-00
ಟಿಪ	465729-00
ಜಿ.ಸ್	23500-00
ಟಿಡಬ್ಲ್ಯೂ	232900-00
ಲೇಬರ್	207915-00
Cement	207915-00
ಟಿಎ	240450-00
	1378409-00
	21908033-00

Contractor's Signature

For Benaka Developers And Projects Pvt. Ltd

NARAHARI .D
Managing Director

Received **Rs.**

by cash and by adjustment of Payment as per memorandum.

Witnesses:

1

2

Dated..... Signature of Contractor

For Benaka Developers And Projects Pvt. Ltd

Stamp

NARAHARI .D
Managing Director

Paid by me by cheque No.....dated.....

Cast Rs.....dated.....

Initials of Officer making payment

(For use in the Office)

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ ರಡಿ

ಜಿಲ್ಲು ಮೊಬಲಗು 23286442-00 ಗೆಯನ್ನು ಮಾಡಿದೆ.

ಇದರಲ್ಲಿ ರೂ. 1378409-00 ಹೊಂದಾಣಿಕೆ ಮಾಡಿಕೊಂಡು ರೂ. ಗೆಯನ್ನು

21908033-00

FT/NEFT/RTGS ಮುಖಾಂತರ ಪಾವತಿಸಿದೆ

ನಿರ್ವಾಹಕರು ಎಕ್ಸಿಕ್ಯೂಟಿವ್ ಇಂಜಿನಿಯರ್ ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ ಬೃ.ಬೆ.ಮ.ಪಾ. ಬೆಂಗಳೂರು

Executive Engineer

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ ಬೃ.ಬೆ.ಮ.ಪಾ. ಬೆಂಗಳೂರು

BRUHATH BANGALORE MAHANAGARA PALIKE

Bytarayanapura Division

Name of Work (as per sanctioned estimate):Package No.02 (Package consists of 14 works)

Job Code :-

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :2nd & Part Bill

Item No	Description of Item of Work	Unit	BOQ Qty	BOQ Rate	Previous Measurement		Present Measurement		Total Up do date		Remarks
					Qty	Amount	Qty	Amount	Qty	Amount	
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)	Cum	**10454.76**	217.12	1406.17	305307.63	2344.99 2340.99	509144.66 508275.00	3751.16 3747.16	814452.29 813583.00	
2	KSRRB M200-15.2. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. iii) Dismantling Stone Masonry B. Rubble Stone maonry in cement mortar (P.No.137, I.No.18.27 of PW,P&IWTD SR 2016-17)	Cum	**54.54**	406.89	0.00	0.00	0.00	0.00	0.00	0.00	
3	KSRRB M200-14.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. ii) Dismantling brick/Tile work B. In cement mortar. MORTH Specification No. 202 (P.No.137, I.No.18.23 of PW,P&IWTD SR 2016-17)	Cum	**36.00**	401.67	0.00	0.00	0.00	0.00	0.00	0.00	

4	KSRRB M200-12.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202. (P.No.137, I.No.18.18 of PW,P&IWTD SR 2016-17)	Cum	**20.70**	549.11	0.00	0.00	0.00	0.00	0.00	0.00	
5	Removing and Resetting of Footpath Slab (P.No.265, I.No.37.56 of PW, P&IWTD SR 2016-17)	Sqm	**3570.00**	141.78	1635.72	231912.38	0.00	0.00	1635.72	231912.38	
6	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)	Sqm	**10405.60**	86.20	0.00	0.00	3518.71	303312.97	3518.71	303312.97	
7	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)	Sqm	**9726.92**	712.28	1867.26	1330011.95	1825.08	1299967.98	3692.34	2629979.94	
8	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 10cms thick (P.No.25, I.No.5.31.2 of PW, P&IWTD SR 2016-17)	Sqm	**60.00**	883.54	0.00	0.00	0.00	0.00	0.00	0.00	
9	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS(P.No.6, I.No.2.15 of PW,P&IWTD S.R 2016-17)	Cum	**81.69**	2442.94	0.00	0.00	0.00	0.00	0.00	0.00	
10	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)	Cum	**176.93**	5723.17	13.41	76747.71	35.26	201801.84	48.67	278549.55	

11	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.15, I.No.4.28 of PW, P&IWTD SR 2016-17)	Sqm	**24.00**	262.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.15, I.No.4.31 of PW,P&IWTD SR 2016-17)	Sqm	**172.80**	332.32	0.00	0.00	0.00	0.00	0.00	0.00	
13	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. (P.No.18, I.No.4.48 of PW, P&IWTD SR 2016-17)	Cum	**38.40**	6667.96	0.00	0.00	0.00	0.00	0.00	0.00	
14	KSRB - 4.9.2: Providing TMT steel reinforcement Fe500 for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (P.No.17, I.No.4.46.2 of PW, P&IWTD SR 2016-17)	MT	**3.08**	68740.46	0.00	0.00	0.00	0.00	0.00	0.00	

15	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (P.No.12, I.No.5.27.2 of PW,P&IWTD S.R 2016-17)	Sqm	**303.20**	942.52	0.00	0.00	186.80	176062.74	186.80	176062.74	
16	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.No.143, I.No.5.6 of PW,P&IWTD S.R 2016-17)	Cum	**241.26**	4748.90	39.80	189002.42	26.67	126630.37	66.46	315632.79	
17	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.112, I.No.15.1 of PW, P&IWTD S.R	Sqm	**488.70**	110.02	69.09	7601.50	59.26	6519.35	128.35	14120.85	
18	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2015-16)	Cum	**72.20**	6171.18	4.77	29436.53	22.41	138296.14	27.18	167732.67	
19	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. (P.No. 109, I.No. 14.62 of PWD SR 2016-17)	Sqm	**1335.00**	1230.61	1135.94	1397899.12	0.00	0.00	1135.94	1397899.12	

20	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	Sqm	**2499.60**	1859.66	188.76	351029.42	206.37	383778.03	395.13	734807.46	
21	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	Sqm	**195.12**	5297.57	81.90	433870.98	84.00	444995.88	165.90	878866.86	
22	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)	Cum	**6408.20**	176.29	2110.77	372107.63	747.03	131693.86	2857.80	503801.48	
23	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 (P.No.147, I.No.19.60 of PW,P&IWTD S.R 2016-17)	Cum	**1008.00**	342.53	0.00	0.00	0.00	0.00	0.00	0.00	

24	KSRRB M400-6.2: Construction of granular sub-base by providing Close graded material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with mortar grader on prepared surface and compacting with vibratory roller to achieve the desired density, complete as per specifications. A Plant Mix methad For Grading II Material (P.No.155, I.No.20.4.2 of PW,P&IWTD SR 2016-17)	Cum	**372.98**	1781.83	227.25	404920.87	0.00	0.00	227.25	404920.87	
25	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)	Cum	**5302.07**	1891.85	1807.77	3420029.49	747.03	1413268.04	2554.80	4833297.53	
26	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)	Sqm	**22350.08**	29.49	3391.75	100022.78	7584.33	223661.97	10976.09	323684.75	
27	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)	Sqm	**93451.82**	3.40	9231.60	31387.43	41493.01	141076.23	50724.61	172463.67	

28	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)	Sqm	**123762.50**	13.61	12623.35	171803.79	49260.34	670433.26	61883.69	842237.05	
29	KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 (P.No.162 I.No. 21.17.6 of PW,P&IWTD S.R 2016-17)	Cum	**562.41**	7618.42	75.75	577095.32	0.00	0.00	75.75	577095.32	
30	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)	Cum	**4632.08**	8686.84	504.93	4386246.12	1970.41	17116668.55	2475.34	21502914.67	

31	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) ((P.No.177, I.No.22.6.1 of PW,P&IWTD SR 2016-17)	Cum	**87.65**	6653.22	0.00	0.00	0.00	0.00	0.00	0.00	
32	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, I.No.22.7 of PW, P&IWTD SR 2016-17)	Sqm	**876.50**	102.08	0.00	0.00	0.00	0.00	0.00	0.00	
33	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete (P.No.25, I.No.5.30 of PW,P&IWTD S.R 2016-17)	No.	**1666.00**	355.00	337.00	119635.00	0.00	0.00	337.00	119635.00	

34	Removing and resetting of kerb stones(P.No.185, I.No.37.57 of PW,P&IWTD SR 2016-17)	m	**2970.00**	70.32	1368.70	96246.98	0.00	0.00	1368.70	96246.98	
35	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.182, I.No. 24.1 of PW,P&IWTD SR 2016-17)	Sqm	**1302.00**	68.05	0.00	0.00	0.00	0.00	0.00	0.00	
						14032315.06		**23287311.87**		**37319626.93**	

Amount in Words:Rupees Two Crore Thirty Two Lakh Eighty Seven Thousand Three Hundred Eleven and Paise Eighty Seven Only

23286442.00

Certificate:

1 Certified that the contractor has done the work satisfactorly
2 Certified that the debris has been removed from the site
3 Certified that the No dues from the contractor
4 Certified that the above item of the work were not claimed in any other bill

TEJUS CONSULTANTS

Bathly. N.D
AE(WQ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092